

# INTERNATIONAL SEARCH REPORT

In **onal Application No**  
**FLI/GB2004/003406**

|   |   |  |
|---|---|--|
| <b>A. CLASSIFICATION OF SUBJECT MATTER</b><br>IPC 7    B01J13/04    A23L1/00  |   |  |
| According to International Patent Classification (IPC) or to both national classification and IPC   |   |  |
| <b>B. FIELDS SEARCHED</b>   |   |  |
| Minimum documentation searched (classification system followed by classification symbols)<br>IPC 7    B01J    A23L  |   |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched   |   |  |
| Electronic data base consulted during the international search (name of data base and, where practical, search terms used)<br>EPO-Internal, WPI Data, CHEM ABS Data, MEDLINE, BIOSIS, FSTA  |   |  |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>   |   |  |
| Category *  | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.  |
| X   | US 5 204 029 A (MORGAN ROBERT ET AL)<br>20 April 1993 (1993-04-20)<br>cited in the application<br><br>column 3, line 4 - column 7, line 7 | 1-3,<br>8-19, 23,<br>28, 29,<br>31-34,<br>36-38  |
| X   | US 5 580 573 A (KYDONIEUS AGIS ET AL)<br>3 December 1996 (1996-12-03)<br><br>the whole document   | 1-3,<br>8-10, 12,<br>13, 39, 40  |
| X   | CH 509 098 A (NCR CO)<br>30 June 1971 (1971-06-30)<br>the whole document  | 1-36   |
| -/--  |   |  |
| <div style="display: flex; justify-content: space-between;"> <span><input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.</span> <span><input checked="" type="checkbox"/> Patent family members are listed in annex.</span> </div>   |   |  |
| <div style="display: flex;"> <div style="flex: 1;"> <p>* Special categories of cited documents:</p> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="flex: 1;"> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>* &amp; * document member of the same patent family</p> </div> </div> |   |  |
| Date of the actual completion of the international search<br><br><div style="text-align: center; font-weight: bold;">18 January 2005</div>  |   | Date of mailing of the international search report<br><br><div style="text-align: center; font-weight: bold;">28/01/2005</div> |
| Name and mailing address of the ISA<br>European Patent Office, P.B. 5818 Patentlaan 2<br>NL - 2280 HV Rijswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016  |   | Authorized officer<br><br><div style="text-align: center; font-weight: bold;">Popa, M</div>                                    |

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| P,X        | WO 2004/041251 A (JIN YULAI ; MOULTON SHAWN (CA); PERRIE TRUC-CHI (CA); OCEAN NUTRITION) 21 May 2004 (2004-05-21)<br>page 2, line 30 - page 4, line 7<br>page 5, line 13 - page 8, line 17<br>----- | 1-40                  |
| A          | US 5 780 056 A (AKAMATSU TAKU ET AL)<br>14 July 1998 (1998-07-14)<br>the whole document<br>-----  |                       |
| A          | WO 87/01587 A (BIOCOMPATIBLES LTD)<br>26 March 1987 (1987-03-26)<br>page 5A, line 11 - page 8, line 16<br>-----   |                       |
| A          | US 2002/061954 A1 (DAVIS DANNY ALLEN ET AL) 23 May 2002 (2002-05-23)<br>paragraphs '0015! - '0028!<br>-----   |                       |
| A          | US 6 375 968 B1 (QUONG DOUGLAS)<br>23 April 2002 (2002-04-23)<br>the whole document<br>-----  |                       |

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national application No.  
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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☒ Claims Nos.: 5, 7, 8, 10, 16, 25-27  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 5, 7, 8, 10, 16, 25-27

Present claims 5, 7, 10, 16, 26 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds belonging to the group of silicone dioxide and titanium dioxide.

Present claims 8, 25, 27 relate to an extremely large number of possible compounds. In fact, the claims contain so many variables, possible permutations and provisos that a lack of clarity (and conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear (and concise), namely those compounds recited in the examples.

Present claims 8, 25 and 27 relate to a product and its associated method defined (inter alia) by reference to the following parameters:

- P1: storage temperature
- P2: glass transition temperature
- P3: sintering temperature
- P4: gelling temperature

The use of these parameters in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to compare the parameters the applicant has chosen to employ with what is set out in the prior art because the skilled person would have to identify first the mentioned compounds, which can be millions, then to identify for each combination these parameters. The lack of clarity is such as to render a meaningful complete search impossible. Consequently, the search has been restricted to the parts relating to the embodiments mentioned in the examples.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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 Filing No GB2004/003406

| Patent document<br>cited in search report |    | Publication<br>date | Patent family<br>member(s)  | Publication<br>date  |
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| US 6375968                                | B1 | 23-04-2002          | AU 1078001 A<br>CA 2386887 A1<br>DE 60007650 D1<br>DE 60007650 T2<br>EP 1221841 A1<br>JP 2003512395 T<br>WO 0130146 A1  | 08-05-2001<br>03-05-2001<br>12-02-2004<br>11-11-2004<br>17-07-2002<br>02-04-2003<br>03-05-2001   |